

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 2, 7, 8 and 10; and add new Claim 11 as follows.

LISTING OF CLAIMS

1. (currently amended) An antenna apparatus mounted in a through hole defined by a vehicle body made of metal, the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate, wherein the radiating element is spaced in one direction from one [[side]] surface of the vehicle body, and

the ground plate is spaced in an opposite direction from an opposite [[side]] surface of the vehicle body.

2. (currently amended) The antenna apparatus according to claim 1, wherein:

the vehicle body defines a concavity,

the through hole is formed in the bottom of the concavity, and

the radiating element is positioned in the concavity.

3. (original) The antenna apparatus according to claim 1, further comprising:
a metal plate positioned between the radiating element and the ground plate.

4. (previously presented) The antenna apparatus according to claim 3, wherein the vehicle body, the metal plate and the ground plate are electrically connected to each other to be at the same electric potential.

5. (previously presented) The antenna apparatus according to claim 4, wherein the vehicle body and the metal plate are connected by an electrical connection element.

6. (original) The antenna apparatus according to claim 3, wherein the radiating element, the ground plate and the metal plate are molded by a resin.

7. (currently amended) A method for mounting a planar antenna on a vehicle, the planar antenna having a radiating element and a ground plate, the method comprising the steps of:

boring a hole through a body of the vehicle; and

locating the planar antenna in the through hole so that an internal edge of the hole is positioned between the radiating element and the ground plate.

8. (currently amended) An antenna apparatus mounted in a through hole defined by a metal attachment plate the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate, wherein

the radiating element is spaced in one direction from one surface of the metal attachment plate_{[[, and]]};

the ground plate is spaced in an opposite direction from an opposite
[[side]] surface of the metal attachment plate[.]; and

the metal attachment is integral with a vehicle body.

9. (previously presented) The antenna apparatus according to claim 8,
wherein an internal edge of the hole is positioned between the radiating element and
the ground plate.

10. (currently amended) An antenna apparatus mounted on a vehicle, the
antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate; and

a metal vehicular body, the vehicular body defining a through hole which
has an internal edge,

wherein the internal edge of the through hole is located between the
radiating element and the ground plate.

11. (new) An antenna apparatus mounted in a hole defined by a vehicle body
made of metal, the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate; and

a metal plate positioned between the radiating element and the ground
plate; wherein

the radiating element is spaced in one direction from one side of the
vehicle body;

the ground plate is spaced in an opposite direction from an opposite side of the vehicle body; and

the vehicle body, the metal plate and the ground plate are electrically connected to each other to be at the same electric potential.